#9

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

Complete if Known	
Application Number	10/071032
Filing Date	February 8, 2002
First Named Inventor	Richard Dennis Dyer, et al
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	A0000425-01-CFP

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TNT	✓	5,082,838		Naka, et al	01/21/1992	514/211.1
	✓	5.817.819		Furuya, et al	10/06/1998	546/114
	✓	5.948.780		Peterson, Jr., et al	09/07/1999	514/255
TNT	✓	6.008.243		Bender. et al	12/28/1999	514/422

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
TNT	✓	WO	95/35296		Takatani, et al	12/28/1995		
	✓	WO	01/63244 A1		Chen, et al	08/30/2001		
	✓	EP	0 404 525 B1		Naka, et al	05/15/1996		
	✓	GB	2 097 396 A		Seivaku. et al	11/03/1982		
	✓	DE	41 37 437 A1		Furrer, et al	05/19/1993		
TNT	✓	EP	0 404 525 A		Naka. et al	12/27/1990		

Examiner Signature		Date Considered	11/16/04

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Sheet 2 of 3

Complete if Known	
Application Number	10/071032
Filing Date	February 8, 2002
First Named Inventor	Richard Dennis Dyer, et.al
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	A0000425-01-CFP

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
TNT	✓	MONTANA, John, et al, "The design of selective non-substrate-based matrix metalloproteinase inhibitors", Current Opinion in Drug Discovery & Development, 2000; 3(4), pp 353-361 .	
	✓	CLARK, Ian, et al, "Matrix metalloproteinase inhibitors in the treatment of arthritis", Current Opinions in Anti-inflammatory & Immunomodulatory Investigational Drugs, 2000; 2(1), pp 16-25 .	
	✓	CHEN, James, et al, "Structure-Based Design of a Novel, Potent, and Selective Inhibitor for MMP-13 Utilizing NMR Spectroscopy and Computer-Aided Molecular Design", J. Am. Chem. Soc., 2000, 122; pp 9648-9654 .	
	✓	DERWENT ABSTRACT, 96-068630/07, "New fused imidazole cpds. - possess inhibitory activity of adhesion molecule expression (Eng.)"	
	✓	DERWENT ABSTRACT, 93-168431/21, "New Thiazolo-pyrimidine disone derivs. for treating anteriosclerosis"	
	✓	DERWENT ABSTRACT, 91-001547/01, "New sulphur-Contg. fused pyrimidine cpds. - are endothelin and interleukin inhibitors for treatment and prevention of myocardial infarction, auto:immune diseases, etc."	
	✓	DERWENT ABSTRACT, 93271 E/44, "Cyclised pro-form of 5-flouro-uracil derivs. - are orally administered antitumour agents without side effects of parent"	
	✓	KAUL, Ravinder, et al, "2-14C-1-Allyl-3,5-diethyl-6-chlorouracil II: Isolation and Structures of the Major Sulfur-Free and Three Minor Sulfur-Containing Metabolites and Mechanism of Biotransformation", Journal of Pharmaceutical Sciences, Vol. 71, No. 8, August 1982; pp 897-900 .	
	✓	KAUL, Ravinder, et al, "Structure of a novel sulphur-containing metabolite of Acluracil (1-allyl-3,5-diethyl-6-chlorouracil)", Xenobiotica, 1982, Vol. 12, No. 8; pp 495-498 .	
	✓	KAUL, Von R., et al, "Identfizierung eines driten S-haltigen Metaboliten von 1-Allyl-3,5-diethyl-6-chloruracil und Bildungsmechanismus der SCH - Metaboliten", Arzneim.-Forsch./Drug Res., 1982; 32(I)(6); pp 610-612 .	
TNT	✓	BROWN, et al, "The Synthesis of Some 1-Substituted Cytosine and Uracil Derivatives", J. Chem. Soc., 1972; pp 2385-2391 .	

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Group Art Unit	Unknown
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TNT	✓	PECORARI, Piergiiogio, et al, "Synthesis And Biological Activity of Pyrimido [2,1-b] [1,3]Thiazine, [1,3]Thiazino[3,2-a]Purine And [1,2,3]Triazolo[4,5-d][1,3]Thiazino[3,2-a]Pyrimidine Derivatives And Thiazole Analogues (*)", IL Farmaco, 46 (7,8), 1991; pp 899-911 ,	
	✓	DE MELO, S. J., et al, "5-flouro (3H) pyrimidine-4-ones: synthese, reactivite et proprietes pharmacologiques", Ann. Pharmaceutiques francaises, 1992, 50, n 1, pp 39-51 ;	
	✓	Chem. Abstr. 1992; 117; pp 143023e - ~~COPY TO FOLLOW~~ De Melo et. al.	
	✓	FASKHUTDINOW, et al, Kim. Farm. Zh. 1988; 22(5); pp 557 - ~~COPY TO FOLLOW~~	
	✓	Chem. Abstr. 1988; 109; pp 162901r - ~~COPY TO FOLLOW~~ Faskhutdinov et.al.	
TNT	✓	TOZKOPARAN, Birsen, et al, "Condensed Heterocyclic Compounds: Synthesis and Antiinflammatory Activity of Novel Thiazolo[3,2-a]pyrimidines", Arch. Pharm. Pharm. Med. Chem. 331, (Weinheim, Germany); 1998; pp 201-206 ,	

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Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	A0000425-01-CFP

#5

U.S. PATENT DOCUMENTS

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TNT	✓	5,182,838		Naka, et al	01/21/1992	544/278
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		5,948,780		Peterson, Jr., et al	09/07/1999	514/255
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	✓	WO	01/63244 A1		Chen, et al	08/30/2001		
	✓	EP	0 404 525 B1		Naka, et al	05/15/1996		
	✓	GB	2 097 396 A		Seivaku, et al	11/03/1982		
TNT	✓	DE	41 37 437 A1		Furrer, et al	05/19/1993		
	✓	~~EP~~	~~0 404 525 A~~		~~Naka, et al~~	~~12/27/1990~~	Duplicate	

Examiner Signature			Date Considered	5/12/04

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Application Number	10/071032
Filing Date	February 8, 2002
First Named Inventor	Richard Dennis Dyer, et al
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	A0000425-01-CFP

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
TNT	✓	MOHANA, John, et al, "The design of selective non-substrate-based matrix metalloproteinase inhibitors", Current Opinion in Drug Discovery & Development, 2000; 3(4), pp 353-361	
	✓	CLARK, Ian, et al, "Matrix metalloproteinase inhibitors in the treatment of arthritis", Current Opinions in Anti-Inflammatory & Immunomodulatory Investigational Drugs, 2000; 2(1), pp 16-25	
	✓	CHEN, James, et al, "Structure-Based Design of a Novel, Potent, and Selective Inhibitor for MMP-13 Utilizing NMR Spectroscopy and Computer-Aided Molecular Design", J. Am. Chem. Soc., 2000, 122; pp 9648-9654	
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TNT	✓	BROWN, et al, "The Synthesis of Some 1-Substituted Cytosine and Uracil Derivatives", J. Chem. Soc., 1972; pp 2335-2391	

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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	V	DE MELO, S. J., et al, "5-flouro (3H) pyrimidine-4-ones: synthese, reactivite et proprietes pharmacologiques", Ann. Pharmaceutiques francaises, 1992, 50, n 1, pp 39-51	
	V	Chem. Abstr. 1992; 117; pp 143023e - ~~COPY TO FOLLOW~~	
	V	PASKHUTDINOW, et al, Kim. Farm. Zh. 1988; 22(5); pp 557 - ~~COPY TO FOLLOW~~	
		Chem. Abstr. 1988; 109; pp 162901r - ~~COPY TO FOLLOW~~	
TNT	V	TOZKOPARAN, Birsen, et al, "Condensed Heterocyclic Compounds: Synthesis and Antiinflammatory Activity of Novel Thiazolo[3,2-a]pyrimidines", Arch. Pharm. Pharm. Med. Chem. 331, (Weinheim, Germany); 1998; pp 201-206	

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#13

FORM PTO-1449 (Rev. 2-32) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. A0000425-01-CFP	SERIAL NO. 10/071,032
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	APPLICANT Richard Dennis Dyer, et al.	
	FILING DATE February 08, 2002	GROUP 1624

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
INT	✓	0 0 0 9 4 8 5	02/24/00	WO				X
	✓	0 1 1 2 6 1 1	02/22/01	WO				X
	✓	0 2 3 4 7 2 6	05/02/02	WO				X
	✓	0 2 3 4 7 5 3	05/02/02	WO				X
	✓	0 9 3 5 9 6 3	08/18/99	EP				X
INT	✓	1 1 3 8 6 8 0	10/04/01	EP				X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc)

EXAMINER	DATE CONSIDERED
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Sheet 1 of 4

Complete if Known	
Application Number	10/071,032
Filing Date	February 8, 2002
First Named Inventor	Richard Dennis Dyer
Art Unit	1624
Examiner Name	Tamthom Ngo Truong
Attorney Docket Number	A0000425-01-CFP

U. S. PATENT DOCUMENTS

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TNT	✓	US- 2003/0004172	01-02-2003	Harter, et al		514/260.1
	✓	US- 2003/0078276	04-24-2003	Andrianjara, et al		514/266.1
	✓	US- 2002/0193377	12-19-2002	Andrianjara, et al		514/248
	✓	US- 2003/0144274	07-31-2003	Bunker, et al		514/223.2
	✓	US- 2003/0130278	07-10-2003	Gaudilliere, et al		514/228.5
	✓	US- 2003/0216402	11-20-2003	Gaudilliere, et al.		514/251
	✓	US- 2004/0006077	01-08-2004	Gaudilliere, et al		514/227.8
	✓	US- 2004/0063673	04-01-2004	Johnson		514/114
	✓	US- 2004/0034054	02-19-2004	Wilson		514/301
	✓	US- 2004/0038973	02-26-2004	Nahra et al.		514/243
	✓	US- 2004/0039012	02-26-2004	Wilson		514/301
	✓	US- 2004/0038994	02-26-2004	Wilson		514/260.1
	✓	US- 2004/0043991	03-04-2004	Picard et al.		514/222.8
	✓	US- 4,419,356	12-06-1983	Debarre et al.		514/259.2
	✓	US- 4,421,914	12-20-1983	Okamura et al.		544/278
	✓	US- 4,383,996	05-17-1983	Oba et al.		514/259.2
	✓	US- 4,302,585	11-24-1981	Wei et al.		544/247
TNT	✓	US- 10/739,261		Bunker et al.	Filed 12-18-2003	
		US-				

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TNT	✓	WO 02/064599	08-22-2002	Dyer et al		
	✓	WO 02/064598	08-22-2002	Harter, et al		
	✓	WO 02/064080	08-22-2002	Andrianjara, et al		
	✓	WO 02/064572	08-22-2002	Andrianjara, et al		
	✓	WO 03/032999	04-24-2003	Bunker et al.		
TNT	✓	WO 03/033478	04-24-2003	Gaudilliere et al.		

Examiner Signature		Date Considered	11-16-04

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
TNT	✓	WO 03/076417	09-18-2003	Gaudilliere et al.		
	✓	WO 2004/000322	12-31-2003	Gaudilliere et al.		
	✓	WO 2004/014384	02-19-2004	Johnson		
	✓	WO 2004/014375	02-19-2004	Wilson		
	✓	WO 2004/014365	02-19-2004	O'Brien et al.		
TNT	✓	WO 2004/014908	02-19-2004	Wilson		

Examiner Signature		Date Considered	11/16/04

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 3 of 4

Complete if Known	
Application Number	10/071,032
Filing Date	February 8, 2002
First Named Inventor	Richard Dennis Dyer
Art Unit	1624
Examiner Name	Tamthom Ngo Truong
Attorney Docket Number	A0000425-01-CFP

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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TNT	✓	WO 2004/014916	02-19-2004	Wilson		
TNT	✓	WO 2004/014923	02-19-2004	Picard et al.		
TNT	✓	WO 96/38434	12-05-1996	Hupe et al.		

Examiner Signature		Date Considered	11/16/04

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
TNT	✓	Office Action from 10/264,764 (PC20536A) mailed 6.16.03	
	✓	LOVEJOY et al., "Crystal structures of MMP-1 and -13 reveal the structural basis for selectivity of collagenase inhibitors", Nature Structural Biology, 1999, Vol. 6, No. 3, pages 217-221	
	✓	MOY et al., "High-resolution Solution Structure of the Catalytic Fragment of Human Collagenase-3 (MMP-13) Complexed with a Hydroxamic Acid Inhibitor", J. Mol. Biol., 2000, Vol. 302, 671-689	
	✓	MITCHELL et al., "Cloning, Expression, and Type II Collagenolytic Activity of Matrix Metalloproteinase-13 from Human Osteoarthritic Cartilage", J. Clin. Invest., 1996, Vol. 97, No. 3, pages 761-768	
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	✓	BILLINGHURST et al., "Comparison of the Degradation of Type II Collagen and Proteoglycan in Nasal and Articular Cartilages Induced by Interleukin-1 and the Selection Inhibition of Type II Collagen Cleavage by Collagenase", Arthrit. & Rheum., 2000, Vol. 43, No. 3, pages 664-672	
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	✓	HIROTA et al., "Novel Synthesis of Pyrido[3,4-d]pyrimidines, Pyrido[2,3-d]pyrimidines, and Quinazolines via Palladium-Catalyzed Oxidative Coupling", Heterocycles, 1994, Vol. 37, No. 1, pages 563-570	
TNT	✓	PCT International Search Report, PCT/IB02/00313	

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